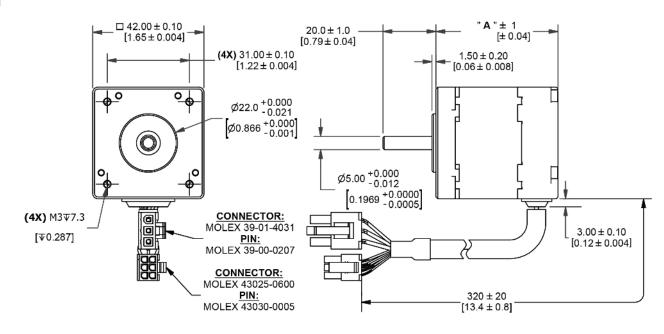
www.linengineering.com



Motor Specifications

Part Number	BL17E28-02-R0	
Dimension "A" Max	2.8 in [71mm]	
Rated Voltage	48 VDC	
Rated Torque	203.92 oz-in [1.44N-m]	
Rated Speed	4000 RPM	
Rated Power	60 Watts	
Rated Current	1.63 Amps	
Peak Torque	40.7 oz-in [0.288N-m]	
Peak Current	3.26 Amps	
Torque Constant (kt)	12.46 oz-in/Amp	
Back EMF Constant (Ke)	8.46 Vp/KRPM	
Motor Constant (Km)	7.7 oz-in/√W [0.054 N-m/√W]	
Resistance	2.62 Ohms	
Inductance	2.5 mH	
Rotor Inertia	0.39 oz-in ²	
Weight	1.21 lb [0.55 kg]	
Electrical Time Constant	1 ms	
Mechanical Time Constant	2.7 ms	

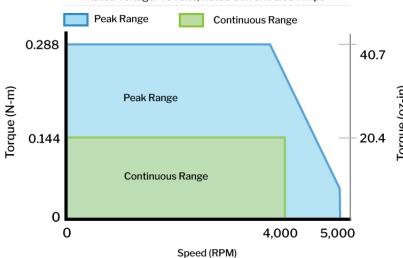
Dimensions



Performance Curve

BL17E28-02

Rated Voltage: 48Volts, Rated Current: 1.63 Amps



Recommended Products







BLDC EXTENSION CABLE 4201-100/300

Motor Operating Specs.

Hall Effect Angle	120°Ω electrical Angle
Radial Play	0.002 in [0.05 mm] @ 0.99 lbs [0.45 kg]
End Play	0.003 in [0.08 mm] @ 99.21 lbs [45.00 kg]
Max. Radial Force	0.394 in [10.00 mm] @ 3.37 lbs [1.53 kg]
Max. Axial Force	2.25 lbs [1.02 kg]
Insulation Class	Class B
Dielectric Strength	500 VDC for 1 minute
Insulation Resistance	100 Ω min. 500 VDC
Ambient Operating Temperature	-20°C to 50°C
Storage Temperature	-20°C to 100°C
Humidity Range (%)	85% (RH) non-condensing
Direction of Rotation	CCW

Pin Out Charts

PIN#	COLOR	PHASE	
1	RED	VCC (+5V)	
2	YELLOW	HV	
3	BLUE	HW	
4	BLACK	GND	
5	ORANGE	HU	

PIN#	COLOR	PHASE	
1	BLUE	W	
2	ORANGE	U	
5	YELLOW	ν	

Operation & Usage Tips



Do not disassemble motors; a significant reduction in motor performance will occur.



Do not machine shafts; this will have a negative effect on shaft run out and perpendicularity.



Do not disconnect motor from drive while in operation.



Do not use holding torque/detent torque of motor as a fail safe brake



Do not hold motor by lead wires.



Do not exceed the rated current; this wil burn the motor.

FAILURE TO COMPLY WITH THESE RECOMMENDATIONS WILL VOID ALL WARRANTY TERMS

Motion Control, Solved.

MOTOR ENGINEERING & MANUFACTURING







Small Batch to OEM Volume Production

